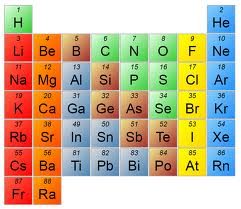
SNC1P

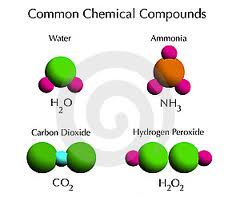
|  |  |
| --- | --- |
| Pure Substances | Mixtures |
|  | AIR |
| One identity throughout the substance | Two or more different substances physically blended together such that each retains its own identity |
| Cannot be broken into its components by physical means Example Pure Water | Can be separated into its components by physical means |
| Very rarely found naturally | Very common in nature |
| Two main types of pure substances are elements and compounds | Two main types are homogeneous and hetrogeneous |

**Elements**

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* consists of only one kind of atom,
* cannot be broken down into a simpler type of matter by either physical or chemical means, and
* can exist as either atoms (e.g. argon) or molecules (e.g., nitrogen).

**Compounds**

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* consists of atoms of two or more different elements ***bound together***,
* can be broken down into a simpler type of matter (elements) by chemical means (but not by physical means),
* has properties that are different from its component elements, and
* contains the same ratio of its component atoms